

**Addendum to the  
Biological Report**

**for**

**Estrella River Vineyards**

**Tract 2905**

**San Luis Obispo County  
California**

**Prepared for**

**Resource Landholdings, LLC**

**523 S. Cascade Avenue, Suite E**

**Colorado Springs, CO 80903**

**by**

**ALTHOUSE AND MEADE, INC.**

**BIOLOGICAL AND ENVIRONMENTAL SERVICES**

**1875 Wellsona Road**

**Paso Robles, CA 93446**

**805-467-1041**

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## **Introduction**

Althouse and Meade, Inc. conducted a seasonally timed botanical survey of the 560 acre Estrella River Vineyards property in the spring of 2008 as an update to our January 2007 biological report. Field work for the January 2007 report was conducted on the Property in May, June, and July 2006. No special status plants were identified on the Property in 2006. Seasonal conditions were very dry in 2006, and the spring 2008 survey was conducted to verify no special status plants are present on the Property.

## **Methods**

The botanical survey was conducted on April 9 and 28, and May 26, 2008 by Jason Dart. All non-vineyard areas of the Property were surveyed. The survey was floristic in nature, identifying all plant species encountered, but was focused on locating special status species with a potential to occur on the Property. A list of all plant species identified during the 2008 survey was combined with the January 2007 plant list (Table 1).

## **Results**

Twenty-five additional plant species were added to the list during the spring 2008 botanical surveys, for a combined total of 121 species of plants on the Property. Plants added during the 2008 surveys are marked with an asterisk (\*) after the scientific name in Table 1. Special status plants do not occur on the Estrella River Vineyards property.

## **Discussion**

The project area was planted to barley in the spring of 2008. Roads accessing the project area from Estrella Road exist as dirt agricultural roads that would be improved for the project. Small areas of grassland habitat would be affected by the loop road connecting the development area with the existing roads. Special status plants would not be impacted by project construction.

TABLE 1. PLANT LIST. The 121 species of plants identified on the Property consist of 78 native species and 43 introduced species. Plants are listed alphabetically by scientific name within each of five general groups (ferns, trees, shrubs, herbs, and grasses). Plants added to the plant list during the June 2008 survey are marked with an asterisk (\*) after the scientific name.

Scientific Name	Special Status	Origin	Common Name
<b>Ferns - 1 Species</b>			
<i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	None	Native	Gold-back fern
<b>Trees - 5 Species</b>			
<i>Ailanthus altissima</i>	None	Introduced	Tree of heaven
<i>Populus fremontii</i> ssp. <i>fremontii</i>	None	Native	Fremont cottonwood
<i>Quercus douglasii</i>	None	Native	Blue oak
<i>Quercus lobata</i>	None	Native	Valley oak
<i>Salix laevigata</i>	None	Native	Red willow
<b>Shrubs - 9 Species</b>			
<i>Astragalus curtipes</i>	None	Native	Locoweed
<i>Baccharis pilularis</i>	None	Native	Coyote brush
<i>Eriogonum elongatum</i>	None	Native	Elongate buckwheat
<i>Lotus scoparius</i>	None	Native	Deerweed
<i>Marrubium vulgare</i>	None	Introduced	Horehound
<i>Phoradendron villosum</i>	None	Native	Oak mistletoe
<i>Senecio flaccidus</i> var. <i>douglasii</i>	None	Native	Shrubby groundsel
<i>Solanum umbelliferum</i> *	None	Native	Blue-witch
<i>Tamarix</i> sp.	None	Introduced	Tamarisk
<b>Herbs - 90 Species</b>			
<i>Achyrrachaena mollis</i> *	None	Native	Blow wifes
<i>Amaranthus blitoides</i>	None	Native	Pigweed
<i>Ambrosia psilostachya</i> *	None	Native	Western ragweed
<i>Amsinckia menziesii</i> var. <i>menziesii</i>	None	Native	Common fiddleneck
<i>Anthemis cotula</i>	None	Introduced	Mayweed
<i>Asclepias eriocarpa</i>	None	Native	Indian milkweed
<i>Asclepias fascicularis</i>	None	Native	Narrow-leaved milkweed
<i>Bloomeria crocea</i>	None	Native	Golden stars
<i>Brassica nigra</i>	None	Introduced	Black mustard
<i>Brodiaea terrestris</i> ssp. <i>terrestris</i>	None	Native	Dwarf brodiaea

Scientific Name	Special Status	Origin	Common Name
<i>Camissonia campestris</i>	None	Native	Sun cup
<i>Carduus pycnocephalus</i>	None	Introduced	Italian thistle
<i>Castilleja attenuata*</i>	None	Native	Slender owl's clover
<i>Castilleja exserta</i> ssp. <i>exserta</i>	None	Native	Purple owl's clover
<i>Centaurea melitensis</i>	None	Introduced	Tocolote
<i>Centaurea solstitialis</i>	None	Introduced	Yellow star thistle
<i>Centaureum davyi</i>	None	Native	Centaury
<i>Chaenactis glabriuscula</i>	None	Native	Yellow pincushion
<i>Chamomilla suaveolens</i>	None	Introduced	Pineapple weed
<i>Chenopodium album</i>	None	Introduced	Lamb's-quarters
<i>Chondrilla juncea</i>	None	Introduced	Skeleton weed
<i>Chorizanthe staticoides</i>	None	Native	Turkish rugging
<i>Clarkia purpurea</i> ssp. <i>purpurea</i>	None	Native	Wine cups
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera*</i>	None	Native	Four spot
<i>Convolvulus arvensis</i>	None	Introduced	Bindweed
<i>Conyza bonariensis</i>	None	Introduced	Asthmaweed
<i>Crassula tillea</i>	None	Introduced	Moss pygmyweed
<i>Cuscuta californica*</i>	None	Native	California dodder
<i>Datura wrightii</i>	None	Native	Jimson weed
<i>Deinandra</i> (= <i>Hemizonia</i> ) <i>pentactis</i>	None	Native	Salinas tarplant
<i>Delphinium parryi</i> ssp. <i>parryi</i>	None	Native	Parry's larkspur
<i>Dichelostemma capitatum*</i>	None	Native	Blue dicks
<i>Epilobium brachycarpum*</i>	None	Native	Annual willow-herb
<i>Eleocharis macrostachya</i>	None	Native	Common spikerush
<i>Eremocarpus setigerus</i>	None	Native	Dove weed
<i>Erigeron foliosus</i> var. <i>foliosus</i>	None	Native	Leafy daisy
<i>Eriogonum nudum</i>	None	Native	Naked buckwheat
<i>Eriogonum roseum</i>	None	Native	Wand buckwheat
<i>Erodium botrys*</i>	None	Introduced	Storksbill
<i>Erodium cicutarium</i>	None	Introduced	Redstem filaree
<i>Erodium moschatum</i>	None	Introduced	Greenstem filaree
<i>Eschscholzia californica</i>	None	Native	California poppy
<i>Filago gallica</i>	None	Introduced	Herba impia
<i>Foeniculum vulgare</i>	None	Introduced	Fennel

Scientific Name	Special Status	Origin	Common Name
<i>Galium andrewsii</i> *	None	Native	Phlox-leaved bedstraw
<i>Gilia</i> sp.*	None	Native	Gilia
<i>Heliotropium curassavicum</i>	None	Native	Heliotrope
<i>Heterotheca grandiflora</i>	None	Introduced	Telegraph weed
<i>Heterotheca sessiliflora</i>	None	Native	Goldenaster
<i>Hirschfeldia incana</i>	None	Introduced	Mustard
<i>Hypochaeris glabra</i>	None	Introduced	Smooth cat's ear
<i>Hypochaeris radicata</i>	None	Introduced	Rough cat's-ear
<i>Juncus bufonius</i> *	None	Native	Toadrush
<i>Lactuca serriola</i>	None	Introduced	Prickly lettuce
<i>Lagophylla ramosissima</i> ssp. <i>ramosissima</i>	None	Native	Slender hareleaf
<i>Lamium amplexicaule</i> *	None	Introduced	Henbit
<i>Lasthenia gracilis</i> *	None	Native	Common goldfields
<i>Lessingia filaginifolia</i>	None	Native	California aster
<i>Lessingia glandulifera</i> ssp. <i>glandulifera</i>	None	Native	Valley lessingia
<i>Lomatium utriculatum</i> *	None	Native	Lomatium
<i>Lotus humistratus</i>	None	Native	Hill lotus
<i>Lotus procumbens</i>	None	Native	Hairy deerweed
<i>Lotus purshianus</i> var. <i>purshianus</i>	None	Native	Spanish clover
<i>Lotus strigosus</i> *	None	Native	Bishop lotus
<i>Lupinus bicolor</i> *	None	Native	Miniature lupine
<i>Lupinus formosus</i>	None	Native	Showy lupine
<i>Lupinus microcarpus</i>	None	Native	Chick lupine
<i>Madia</i> sp.	None	Native	Tarweed
<i>Medicago polymorpha</i>	None	Introduced	California burclover
<i>Melilotus indica</i>	None	Introduced	Annual sweetclover
<i>Microseris douglasii</i> ssp. <i>douglasii</i> *	None	Native	Douglas' silverpuffs
<i>Navarretia atractylodes</i>	None	Native	Navarretia
<i>Penstemon centranthifolius</i>	None	Native	Scarlet bugler
<i>Plantago erecta</i> *	None	Native	California plantain
<i>Plagiobothrys canescens</i>	None	Native	Popcorn flower
<i>Polygonum arenastrum</i>	None	Introduced	Common knotweed
<i>Portulaca oleracea</i>	None	Introduced	Purslane

Scientific Name	Special Status	Origin	Common Name
<i>Potamogeton foliosus</i> var. <i>foliosus</i>	None	Native	Pondweed
<i>Rumex crispus</i>	None	Introduced	Curly dock
<i>Scirpus acutus</i>	None	Native	Roundstem tule
<i>Scirpus californicus</i>	None	Native	California tule
<i>Silybum marianum</i>	None	Introduced	Milk thistle
<i>Sonchus oleraceus</i>	None	Introduced	Common sow thistle
<i>Spergularia rubra</i>	None	Introduced	Sand spurrey
<i>Stellaria nitens</i> *	None	Native	Chickweed
<i>Stephanomeria virgata</i>	None	Native	Wire-lettuce
<i>Thysanocarpus laciniatus</i> *	None	Native	Fringepod
<i>Trichostema lanceolatum</i> *	None	Native	Vinegar weed
<i>Trifolium hirtum</i>	None	Introduced	Rose clover
<i>Verbena lasiostachys</i>	None	Native	Verbena
<i>Vicia sativa</i>	None	Introduced	Common vetch
<i>Vicia villosa</i> ssp. <i>villosa</i>	None	Introduced	Winter vetch
<b>Grasses - 16 Species</b>			
<i>Avena barbata</i>	None	Introduced	Slender wild oat
<i>Avena fatua</i>	None	Introduced	Wild oat
<i>Bromus diandrus</i>	None	Introduced	Ripgut brome
<i>Bromus hordeaceus</i>	None	Introduced	Soft chess brome
<i>Bromus madritensis</i> ssp. <i>rubens</i>	None	Introduced	Red top brome
<i>Cynodon dactylon</i>	None	Introduced	Bermuda grass
<i>Elymus elymoides</i>	None	Native	Squirrel-tail
<i>Elymus glaucus</i>	None	Native	Blue wildrye
<i>Hordeum murinum</i>	None	Introduced	Foxtail barley
<i>Nassella cernua</i> *	None	Native	Slender needlegrass
<i>Nassella pulchra</i>	None	Native	Purple needlegrass
<i>Phalaris lemmonii</i>	None	Native	Canary grass
<i>Poa secunda</i> ssp. <i>secunda</i> *	None	Native	One-sided bluegrass
<i>Taeniatherum caput-medusae</i>	None	Introduced	Medusahead
<i>Vulpia microstachys</i> *	None	Native	Annual fescue
<i>Vulpia myuros</i>	None	Introduced	Annual fescue